

<110> Xu, Zuoshand and ore, Phillip D.

<120> Allele-Specific RNA Interference

```
<130> UMY-038
```

<140> 10/700816

<141> 2003-11-04

<150> 60/423,507

<151> 2002-11-04

<150> 60/488,283

<151> 2003-07-18

<160> 19

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> synthetic

<221> misc feature

<222> 20, 21

<223> n=deoxy thymidine

<400> 1

uggagacuug cgcaaugugn n

<210> 2

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> synthetic

<221> misc feature

<222> 20, 21

<223> n=deoxy thymidine

<400> 2

cacauugcgc aagucuccan n

<210> 3

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> synthetic

21

21

<221> misc_feature <222> 20, 21 <223> n=deoxy thymidine	
<400> 3 ggagacuugc gcaaugugan n	2
<210> 4 <211> 21 <212> RNA <213> Artificial Sequence	
<220> <223> synthetic	
<221> misc_feature <222> 20, 21 <223> n=deoxy thymidine	
<400> 4 ucacauugcg caagucuccn n	21
<210> 5 <211> 21 <212> RNA <213> Artificial Sequence	
<220> <223> synthetic	
<221> misc_feature <222> 20, 21 <223> n=deoxy thymidine	
<400> 5 gagacuugcg caaugugacn n	21
<210> 6 <211> 21 <212> RNA <213> Artificial Sequence	
<220> <223> synthetic	
<221> misc_feature <222> 20, 21 <223> n=deoxy thymidine	
<400> 6 gucacauugc gcaagucucn n	21
<210> 7 <211> 48 <212> RNA <213> Homo sapiens	
<400> 7 gagaggcaug uuggagacuu gggcaaugug acugcugaca aagauggu	48

```
<210> 8
<211> 48
<212> RNA
<213> Homo sapiens
<400> 8
gagaggcaug uuggagacuu gcgcaaugug acugcugaca aagauggu
                                                                    48
<210> 9
<211> 21
<212> RNA
<213> Artificial Sequence
<220>
<223> synthetic
<221> misc feature
<222> 20, 21
<223> n=deoxy thymidine
<400> 9
                                                               21
gagacuuggg caaugugacn n
<210> 10
<211> 21
<212> RNA
<213> Artificial Sequence
<220>
<223> synthetic
<221> misc feature
<222> 20, 21
<223> n=deoxy thymidine
<400> 10
                                                                    21
gucacauugc ccaagucucn n
<210> 11
<211> 21
<212> RNA
<213> Artificial Sequence
<220>
<223> synthetic
<221> misc_feature
<222> 20, 21
<223> n=deoxy thymidine
<400> 11
                                                                    21
ggagacuugg gcaaugugan n
<210> 12
<211> 21
<212> RNA
<213> Artificial Sequence
<220>
<223> synthetic
```

```
<221> misc_feature
<222> 20, 21
<223> n=deoxy thymidine
<400> 12
                                                                     21
ucacauugcc caagucuccn n
<210> 13
<211> 21
<212> RNA
<213> Artificial Sequence
<220>
<223> synthetic
<221> misc feature
<222> 20, 21
<223> n=deoxy thymidine
<400> 13
uggagacuug ggcaaugugn n
                                                                    21
<210> 14
<211> 21
<212> RNA
<213> Artificial Sequence
<220>
<223> synthetic
<221> misc feature
<222> 20, 21
<223> n=deoxy thymidine
<400> 14
cacauugccc aagucuccan n
                                                                    21
<210> 15
<211> 35
<212> DNA
<213> Homo sapiens
<400> 15
                                                                    35
actgctgaca aagatggtgt ggccgatgtg tctat
<210> 16
<211> 52
<212> RNA
<213> Artificial Sequence
                                                                    52
gacaaagaug cuguggccga uaagcuuauc ggccacagca ucuuugucuu uu
<210> 17
<211> 153
<212> PRT
<213> Homo sapiens
Ala Thr Lys Ala Val Cys Val Leu Lys Gly Asp Gly Pro Val Gln Gly
 1
                 5
                                     10
```

```
Ile Ile Asn Phe Glu Gln Lys Glu Ser Asn Gly Pro Val Lys Val Trp
                                25
Gly Ser Ile Lys Gly Leu Thr Glu Gly Leu His Gly Phe His Val His
                            40
Glu Phe Gly Asp Asn Thr Ala Gly Cys Thr Ser Ala Gly Pro His Phe
                        55
Asn Pro Leu Ser Arg Lys His Gly Gly Pro Lys Asp Glu Glu Arg His
                    70
                                        75
Val Gly Asp Leu Gly Asn Val Thr Ala Asp Lys Asp Gly Val Ala Asp
                85
                                    90
Val Ser Ile Glu Asp Ser Val Ile Ser Leu Ser Gly Asp His Cys Ile
            100
                                105
Ile Gly Arg Thr Leu Val Val His Glu Lys Ala Asp Asp Leu Gly Lys
                            120
Gly Gly Asn Glu Glu Ser Thr Lys Thr Gly Asn Ala Gly Ser Arg Leu
                        135
Ala Cys Gly Val Ile Gly Ile Ala Gln
```

<210> 18 <211> 459 <212> DNA

<213> Homo sapiens

<400> 18

gcgacgaagg ccgtgtgcgt gctgaagggc gacggcccag tgcagggcat catcaatttc 60 gagcagaagg aaagtaatgg accagtgaag gtgtggggaa gcattaaagg actgactgaa 120 ggcctgcatg gattccatgt tcatgagttt ggagataata cagcaggctg taccagtgca 180 ggtcctcact ttaatcctct atccagaaaa cacggtgggc caaaggatga agagaggcat 240 gttggagact tgggcaatgt gactgctgac aaagatggtg tggccgatgt gtctattgaa 300 gattctgtga tctcactctc aggagaccat tgcatcattg gccgcacact ggtggtccat 360 gaaaaagcag atgacttggg caaaggtgga aatgaagaaa gtacaaagac aggaaacgct 420 ggaagtcgtt tggcttgtgg tgtaattggg atcgccaa

<210> 19 <211> 2288 <212> DNA <213> Homo sapiens

```
<400> 19
gtaccctgtt tacatcattt tgccattttc gcgtactgca accggcgggc cacgccgtga 60
gggagtetee ggegeaegeg geceettgge eegeeeeagt catteeegge cactegegae 180
ccgaggctgc cgcagggggc gggctgagcg cgtgcgaggc cattggtttg gggccagagt 240
gggcgaggcg cggaggtctg gcctataaag tagtcgcgga gacggggtgc tggtttgcgt 300
cgtagtetec tgcaggtetg gggttteegt tgcagteete ggaaccagga ceteggegtg 360
gcctagcgag ttatggcgac gaaggccgtg tgcgtgctga agggcgacgg cccagtgcag 420
ggcatcatca atttcgagca gaaggcaagg gctgggaccg ggaggcttgt gttgcgaggc 480
cgctcccgac ccgctcgtcc ccccgcgacc ctttgcatgg acgggtcgcc cgccagggct 540
agagcagtta agcagcttgc tggaggttca ctggctagaa agtggtcagc ctgggattgc 600
atggacggat ttttccactc ccaagtctgg ctgcttttta cttcactgtg aggggtaaag 660.
gtaaatcagc tgttttcttt gttcagaaac tctctccaac tttgcacttt tcttaaagga 720
aagtaatgga ccagtgaagg tgtggggaag cattaaagga ctgactgaag gcctgcatgg 780
attccatgtt catgagtttg gagataatac agcaggtggg tcataattta gcttttttt 840
cttcttctta taaataggct gtaccagtgc aggtcctcac tttaatcctc tatccagaaa 900
acacggtggg ccaaaggatg aagagaggta acaagatgct taactcttgt aatcaatggc 960
gatacgtttc tggagttcat atggtatact acttgtaaat atgtgcctaa gataattccg 1020
tgtttccccc acctttgctt ttgaacttgc tgactcatgt gaaaccctgc tcccaaatgc 1080
tggaatgctt ttacttcctg ggcttaaagg aattgacaaa tgggcactta aaacgatttg 1140
gttttgtagc atttgattga atatagaact aatacaagtg ccaaagggga actaatacag 1200
gaaatgttca tgaacagtac tgtcaaccac tagcaaaatc aatcatcatt tgatgctttt 1260
catataggca tgttggagac ttgggcaatg tgactgctga caaagatggt gtggccgatg 1320
tgtctattga agattctgtg atctcactct caggagacca ttgcatcatt ggccgcacac 1380
tggtggtaag ttttcataaa ggatatgcat aaaacttctt ctaacagtac agtcatgtat 1440
ctttcacttt gattgttagt cgcgaattct aagatccaga taaactgtgt ttctgctttt 1500
aaactactaa atattagtat atctctctac taggattaat gttatttttc taatattatg 1560
aggttettaa acatettttg ggtattgttg ggaggaggta gtgattaett gacageecaa 1620
agttatcttc ttaaaatttt ttacaggtcc atgaaaaagc agatgacttg ggcaaaggtg 1680
gaaatgaaga aagtacaaag acaggaaacg ctggaagtcg tttggcttgt ggtgtaattg 1740
ggatcgccca ataaacattc ccttggatgt agtctgaggc cccttaactc atctgttatc 1800
ctgctagctg tagaaatgta tcctgataaa cattaaacac tgtaatctta aaagtgtaat 1860
tgtgtgactt tttcagagtt gctttaaagt acctgtagtg agaaactgat ttatgatcac 1920
ttggaagatt`tgtatagttt tataaaactc agttaaaatg tctgtttcaa tgacctgtat 1980
tttgccagac ttaaatcaca gatgggtatt aaacttgtca gaatttcttt gtcattcaag 2040
cctgtgaata aaaaccctgt atggcactta ttatgaggct attaaaagaa tccaaattca 2100
aactaaatta gctctgatac ttatttatat aaacagcttc agtggaacag atttagtaat 2160
actaacagtg atagcatttt attttgaaag tgttttgaga ccatcaaaat gcatacttta 2220
aaacagcagg tottttagot aaaactaaca caactotgot tagacaaata ggotgtoott 2280
tgaagctt
```